

(19)



(11)

EP 4 234 606 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
25.10.2023 Bulletin 2023/43

(51) International Patent Classification (IPC):
C08G 63/181 ^(2006.01) **C08G 63/85** ^(2006.01)
C08G 63/16 ^(2006.01)

(43) Date of publication A2:
30.08.2023 Bulletin 2023/35

(52) Cooperative Patent Classification (CPC):
C08G 63/16; C08G 63/181; C08G 63/85

(21) Application number: **23176694.0**

(22) Date of filing: **02.10.2015**

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**

(30) Priority: **03.10.2014 IT MI20141733**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
15781313.0 / 3 201 252

(71) Applicant: **Novamont S.p.A.**
28100 Novara (IT)

(72) Inventors:
• **FAIELLA, Federico**
28053 Castelletto Sopra Ticino (NO) (IT)
• **MILIZIA, Tiziana**
28100 Novara (IT)
• **VALLERO, Roberto**
13040 Borgo D'Ale (VC) (IT)

(74) Representative: **Zanoli, Enrico et al**
Zanoli & Giavarini S.p.A.
Via Melchiorre Gioia, 64
20125 Milano (IT)

(54) **PROCESS FOR THE PRODUCTION OF ALIPHATIC-AROMATIC POLYESTERS**

(57) This invention relates to a process for the production of polyesters comprising an esterification/trans-esterification stage and a polycondensation stage, characterised in that the said polycondensation stage is carried out in the presence of a catalyst comprising a mixture

of at least one Titanium-based compound and at least one Zirconium-based compound in which the Ti/(Ti+Zr) ratio by weight is equal to or greater than 0.01 and equal to or less than 0.70

EP 4 234 606 A3



EUROPEAN SEARCH REPORT

Application Number

EP 23 17 6694

5

10

15

20

25

30

35

40

45

50

55

3

EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 00/46271 A1 (GEN ELECTRIC [US]) 10 August 2000 (2000-08-10) * claims 13, 16 * * page 7, lines 5-15 * -----	1-15	INV. C08G63/181 C08G63/85 C08G63/16
A	US 2013/158196 A1 (TEASLEY MARK F [US]) 20 June 2013 (2013-06-20) * examples 13-20; table 2 * -----	1-15	
			TECHNICAL FIELDS SEARCHED (IPC)
			C08G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 August 2023	Examiner Bezard, Stéphane
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 23 17 6694

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-08-2023

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0046271 A1	10-08-2000	DE 69921365 T2	02-02-2006
		EP 1159330 A1	05-12-2001
		IT MI990211 A1	04-08-2000
		JP 2002536475 A	29-10-2002
		WO 0046271 A1	10-08-2000
US 2013158196 A1	20-06-2013	NONE	

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82